Islamic University of Gaza

Faculty of Engineering
Electrical Engineering Department
Fall-2011

Communication II Lab (EELE 4170)

Syllabus

Objectives:

To understand all parts in the digital communication block diagram, base band communication NRZ, RZ …..etc,optimum receiver, matched filter, error probability, pass band modulation MPSK, MFSK, MASK and MSK, QPSK, BPSK and channel coding.

Course Plan

1st Week Preparing, instructions, safety and lab policy
2nd Week Introduction to Matlab
3rd Week Line Code Encoder.
4th Week Line Code Decoder.
5th Week PCM Modulator
6th Week PCM Demodulator
7th Week ASK Modulator
8th Week MIDTERM EXAM
9th Week ASK Demodulator
10th Week FSK Modulator
11th Week FSK Demodulator
12th Week PSK Modulator and Demodulator
13th Week PROJECT EVALUATION
14th Week FINAL EXAM

References:

- Class Notes
- Sklar, B., ‘Digital communications: Fundamentals and Applications’, Prentice-Hall, 2001.
- Couch, Leon W., II, ‘Digital and Analog Communication Systems’, 5/e, Prentice-Hall, 1997.
- B. P. Lathi, *Modern Digital and Analog Communication Systems*. Oxford University Press, 3 ed, 1998.
- Haykin, S., ‘Communications Systems’, 4/e, J. Wiley & Sons, 2001

Grades:

Attendance	10 Pts
Midterm Exam	15 Pts
Final Exam	30 Pts
Reports	15 Pts
Project	20 Pts
Quizzes	10 Pts

Lab Policy:

No late reports or pre-labs will be accepted
Avoid copy-paste Technology
Reports should be done individually.
If any lab has a prelab you have to submit it at the beginning of this lab.
Midterm Exam will be at the end of Lab(7)

Office Hours: Open-door policy, by appointment or as posted.